

Appl. No. : **Unassigned**
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AMENDMENTS TO THE ABSTRACT

Please amend the abstract as follows.

The invention provides a traction control system and sensor unit thereof which easily and highly accurately senses accelerations generated vertically, longitudinally and laterally in a wheel to control the drive of the vehicle. A sensor unit ~~100~~ provided with an acceleration sensor sensing accelerations generated in association with rotation in the X, Y and Z directions including the rotation direction is disposed in a body of rotation of a rotation mechanism section including each tire ~~300~~, and the sensing result, a digital value, is transmitted as digital data by use of radio wave. The digital data is received by a monitor apparatus ~~200~~ disposed in each tire house and is subjected to arithmetic processing. The acceleration value thus obtained is outputted to a drive control unit ~~700~~. Based on the acceleration value obtained and distortion characteristic data preliminarily stored, the drive control unit ~~700~~ estimates the amount of distortion of each tire, and based on the estimated amount of tire distortion and the sensing result of the number of rotations of each tire ~~300~~, controls a sub-throttle actuator ~~412~~ to drive a sub-throttle ~~416~~.